

1/25

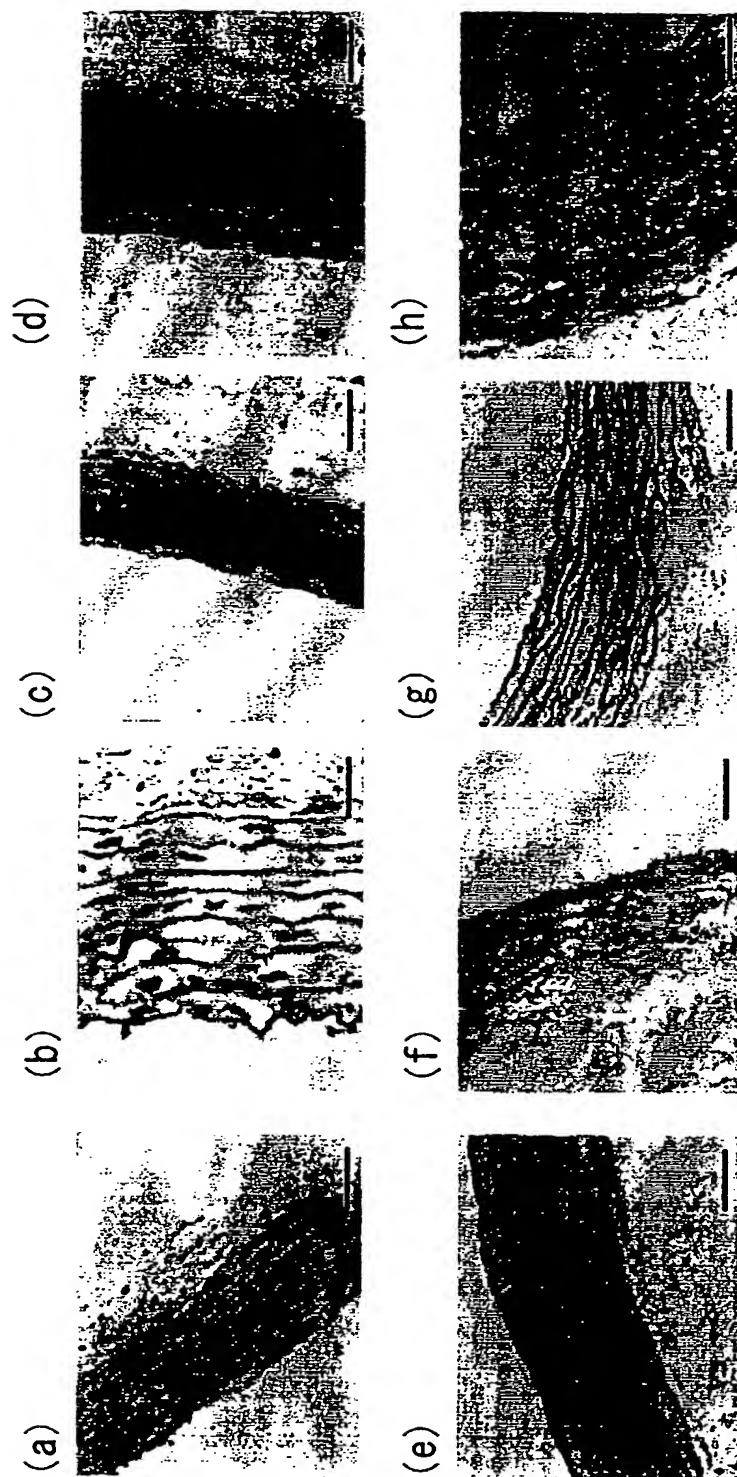


FIG.1

BEST AVAILABLE COPY

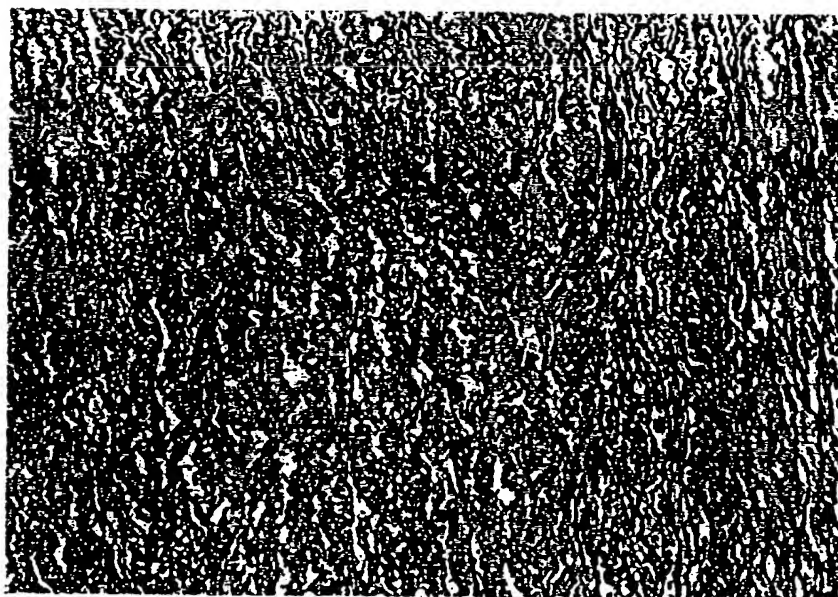
2/25

**FIG.2**

(a)



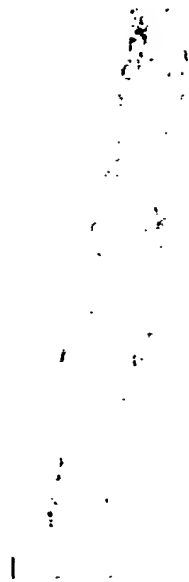
(b)



3/25

**FIG.3**

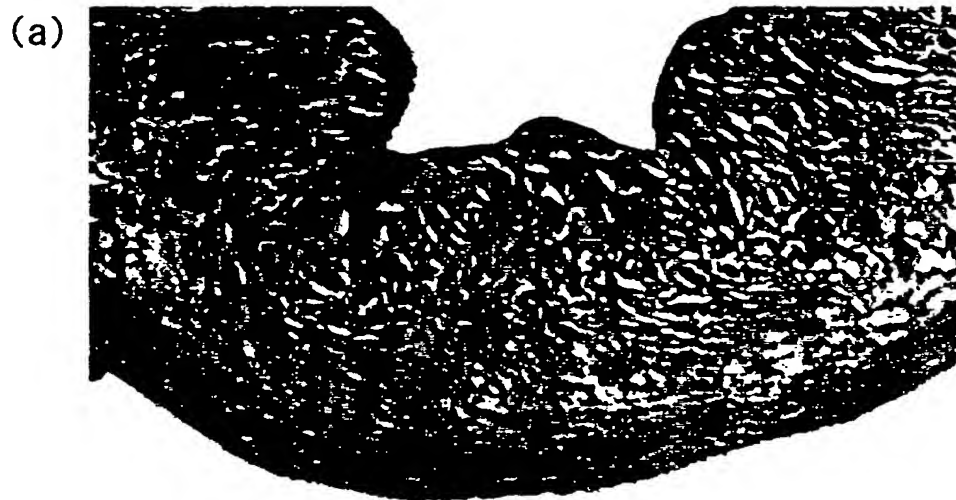
(a)



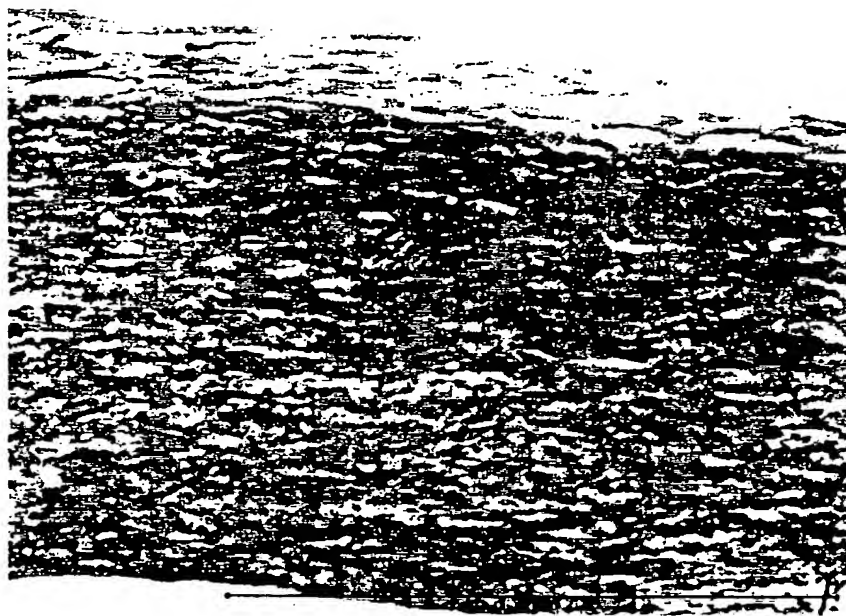
(b)



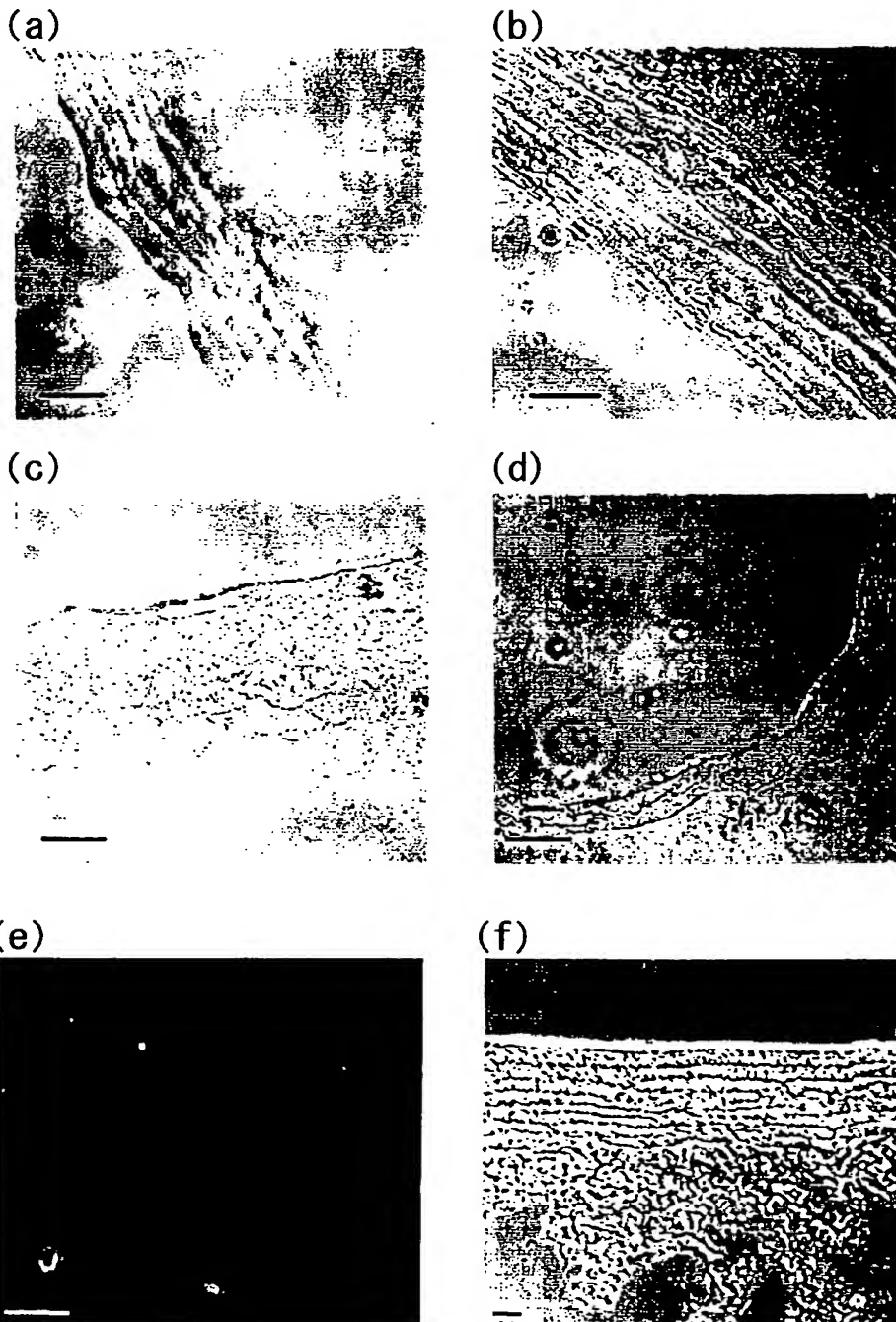
4/25

**FIG.4**

(b)

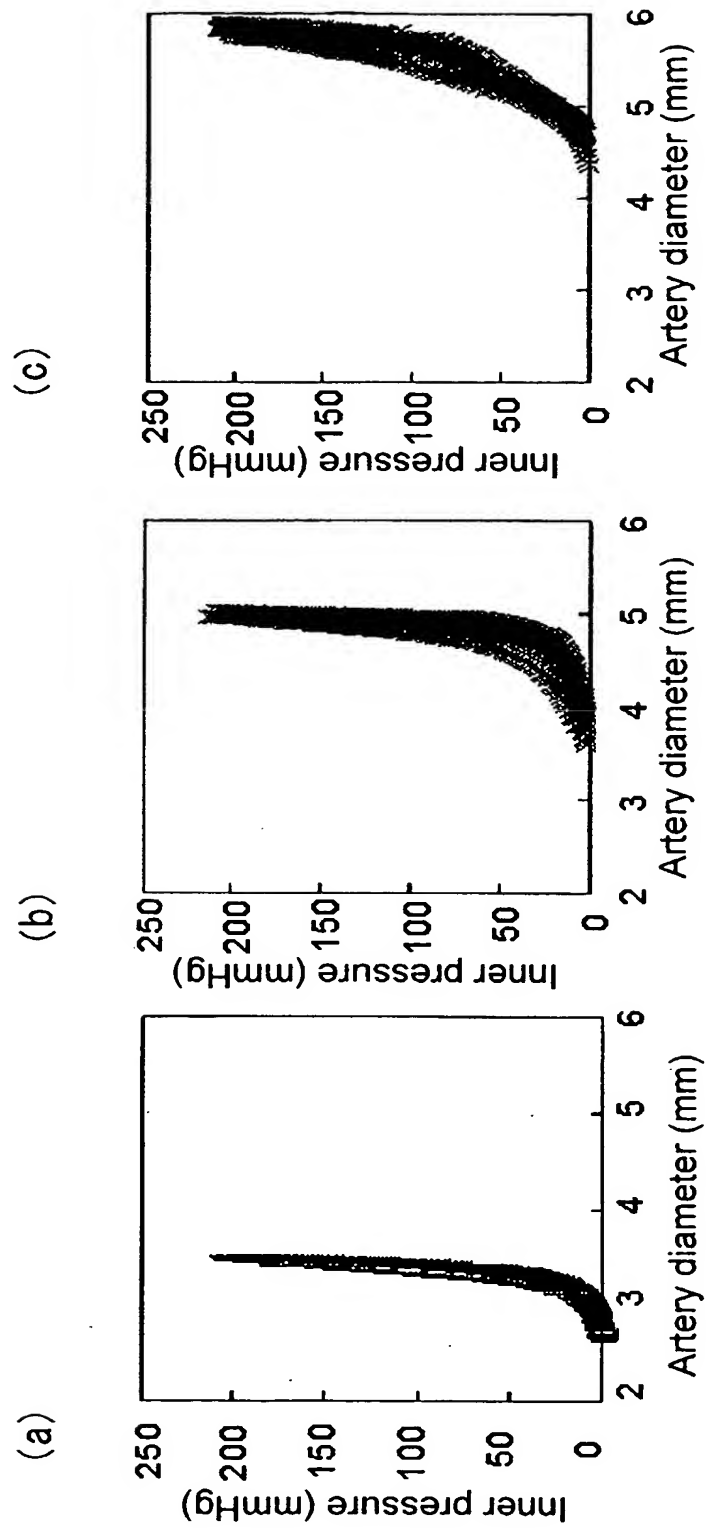


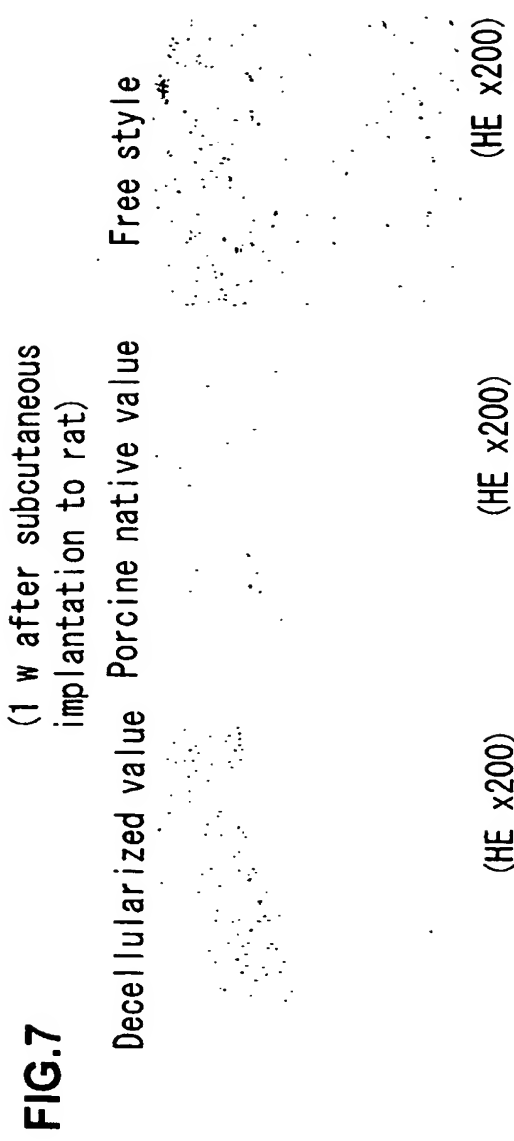
5/25

**FIG.5**

6/25

FIG.6

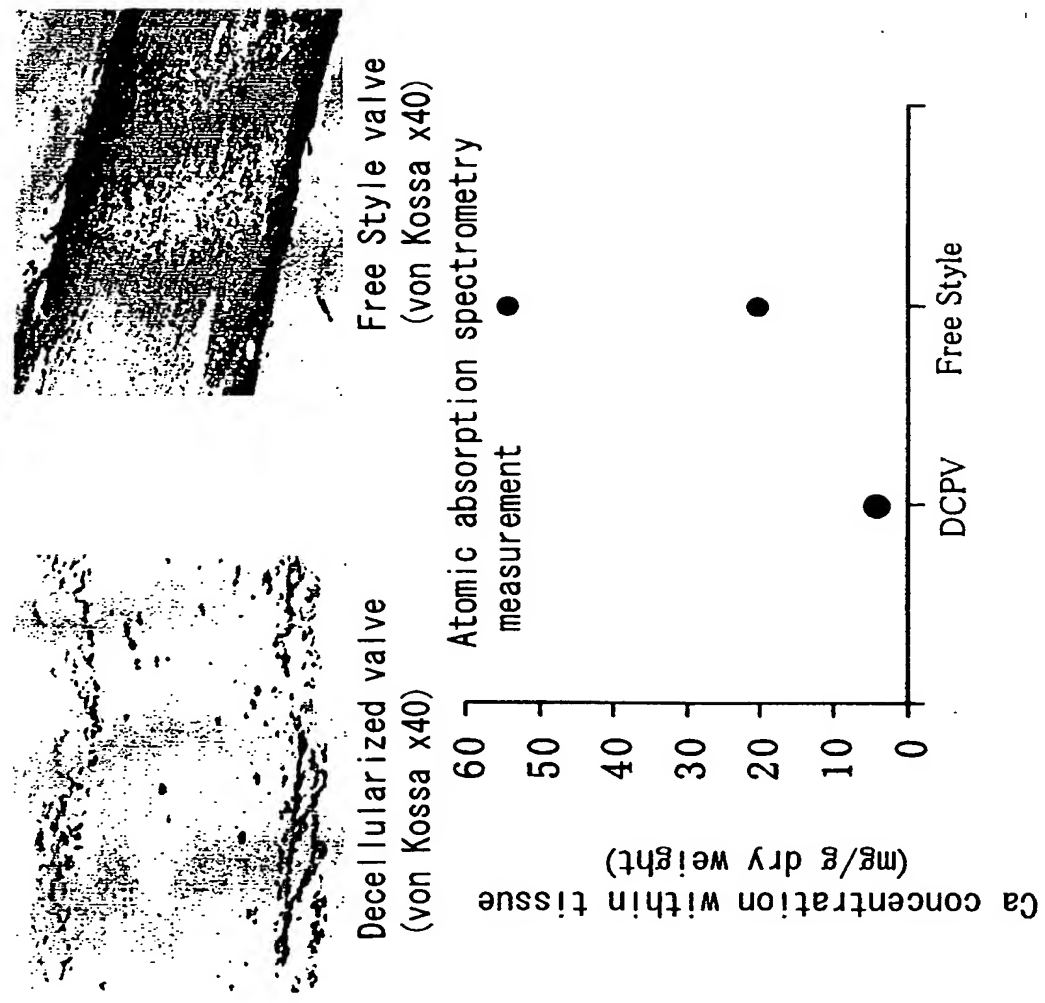




Subcutaneous implantation	Decellularized value	Porcine native value	Free style
Cell infiltration score	0~1	2	0~1
0: no infiltration, 1: 1-2 cell layers, 2: multiple layers			

8/25

FIG.8





9/25

**FIG.9**

(a)



(b)



WO 2004/003178

PCT/JP2003/008248

10/25

**FIG.10**

11/25

**FIG.11**

(a)

Day 10 (SDS)



(b)

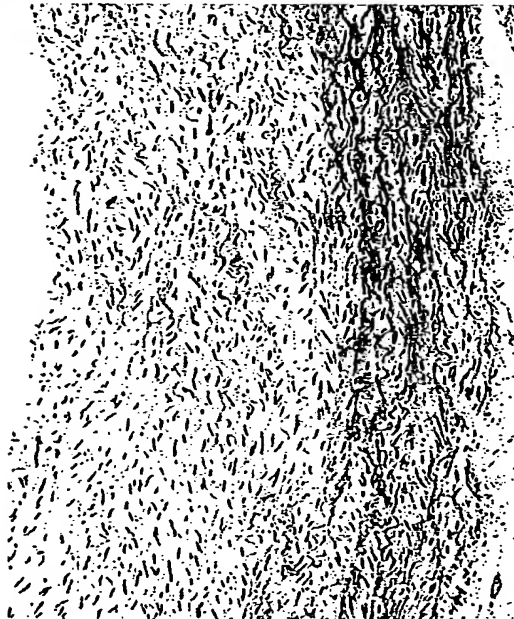
Day 10 (PEG)



12/25

**FIG.12A**

porcine (Hematoxylin-Eosin)



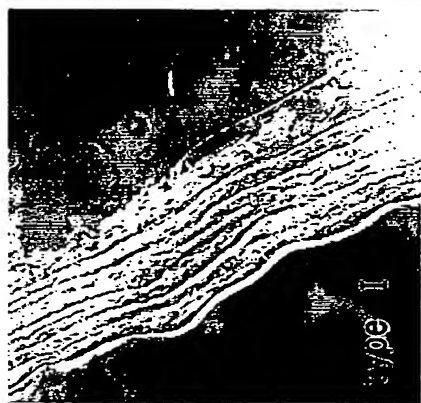
untreated



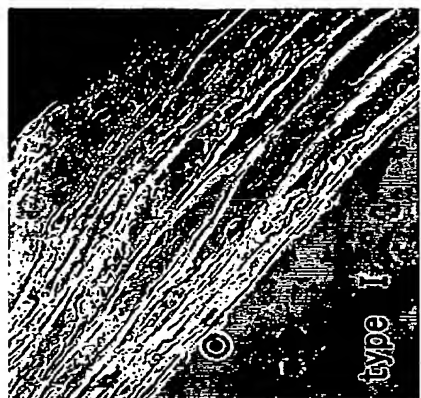
PEG+DNase I

FIG.12B

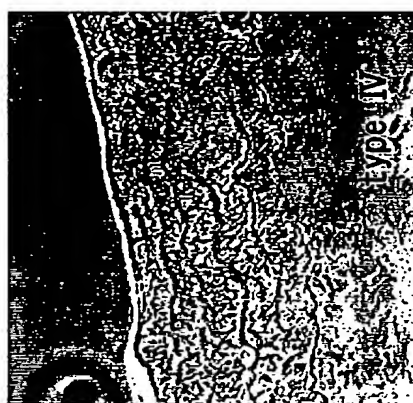
collagen



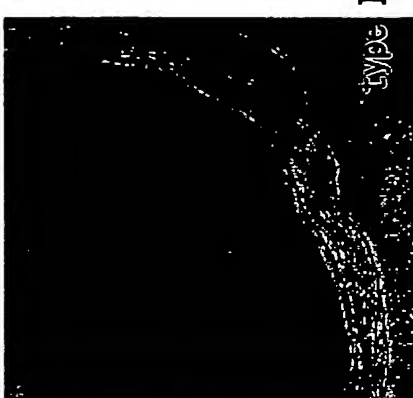
untreated



PEG+DNase I

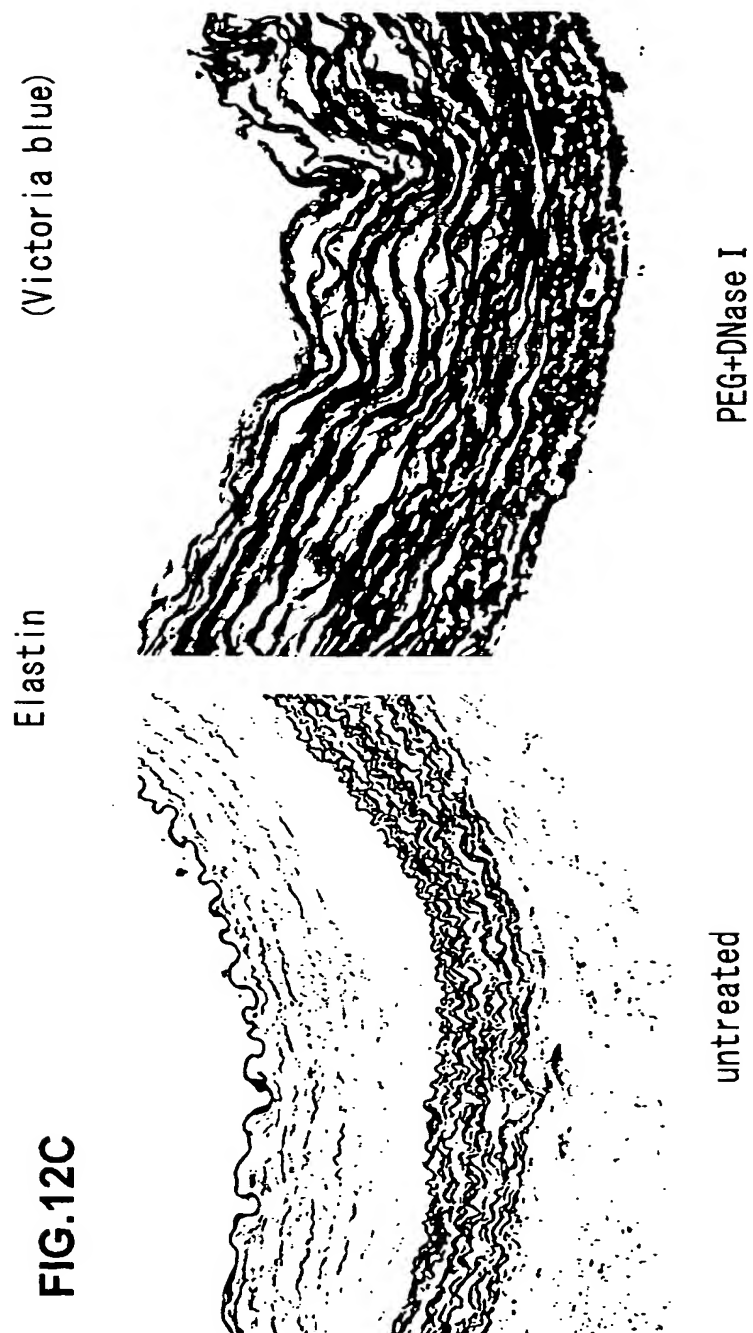


untreated



PEG+DNase I

14/25



15/25

**FIG.13A****Experimental protocol**

1. Collection of porcine artery (inner diameter: 3-4 mm)
2. Decellularization (PEG+DNaseI)
3. Implantation into canine (carotid or femoral a.)
4. Excision of graft



16/25

**FIG.13B** (Hematoxylin-Eosin)

Postoperative day 2

Postoperative day 5

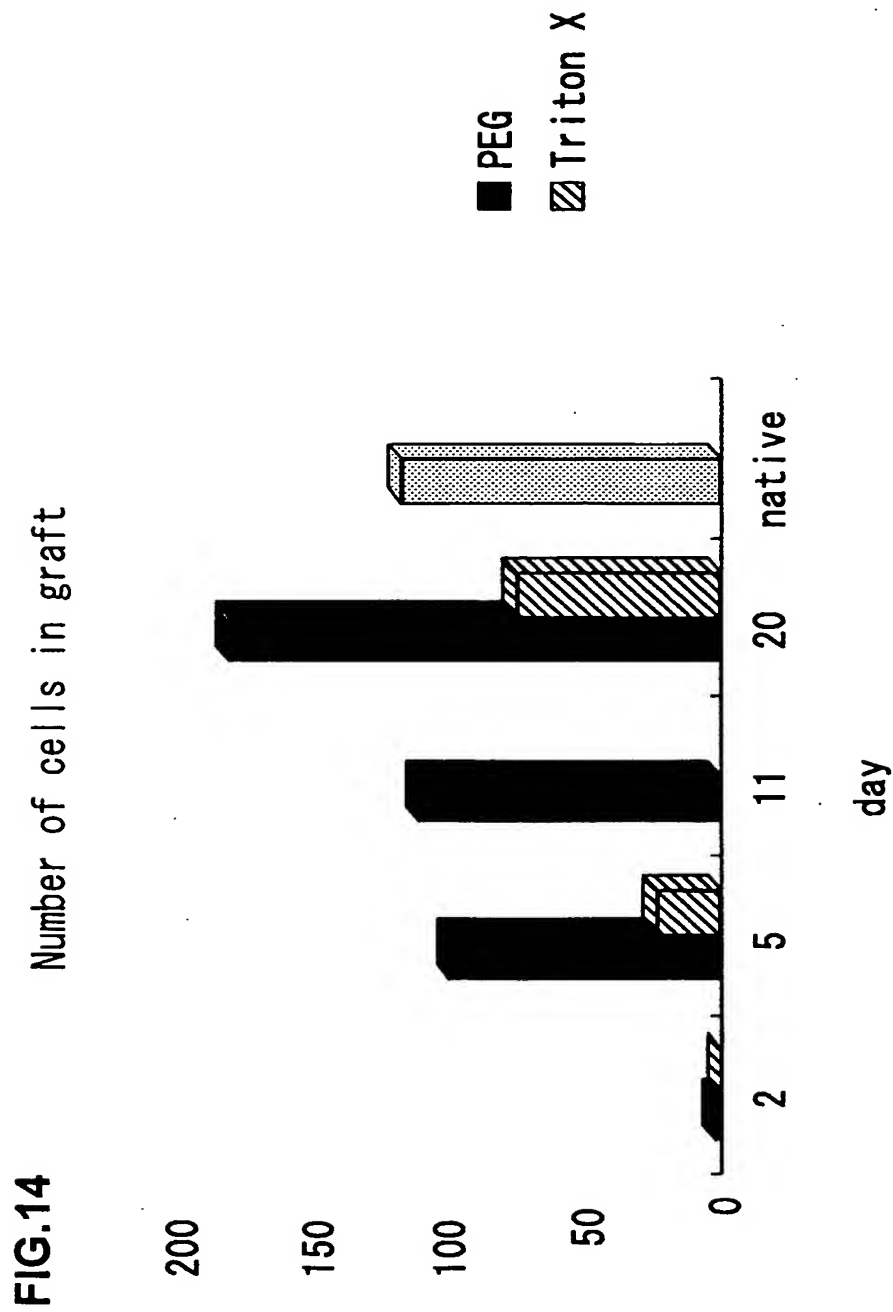


Postoperative day 11

Postoperative day 20



17/25



18/25



19/25

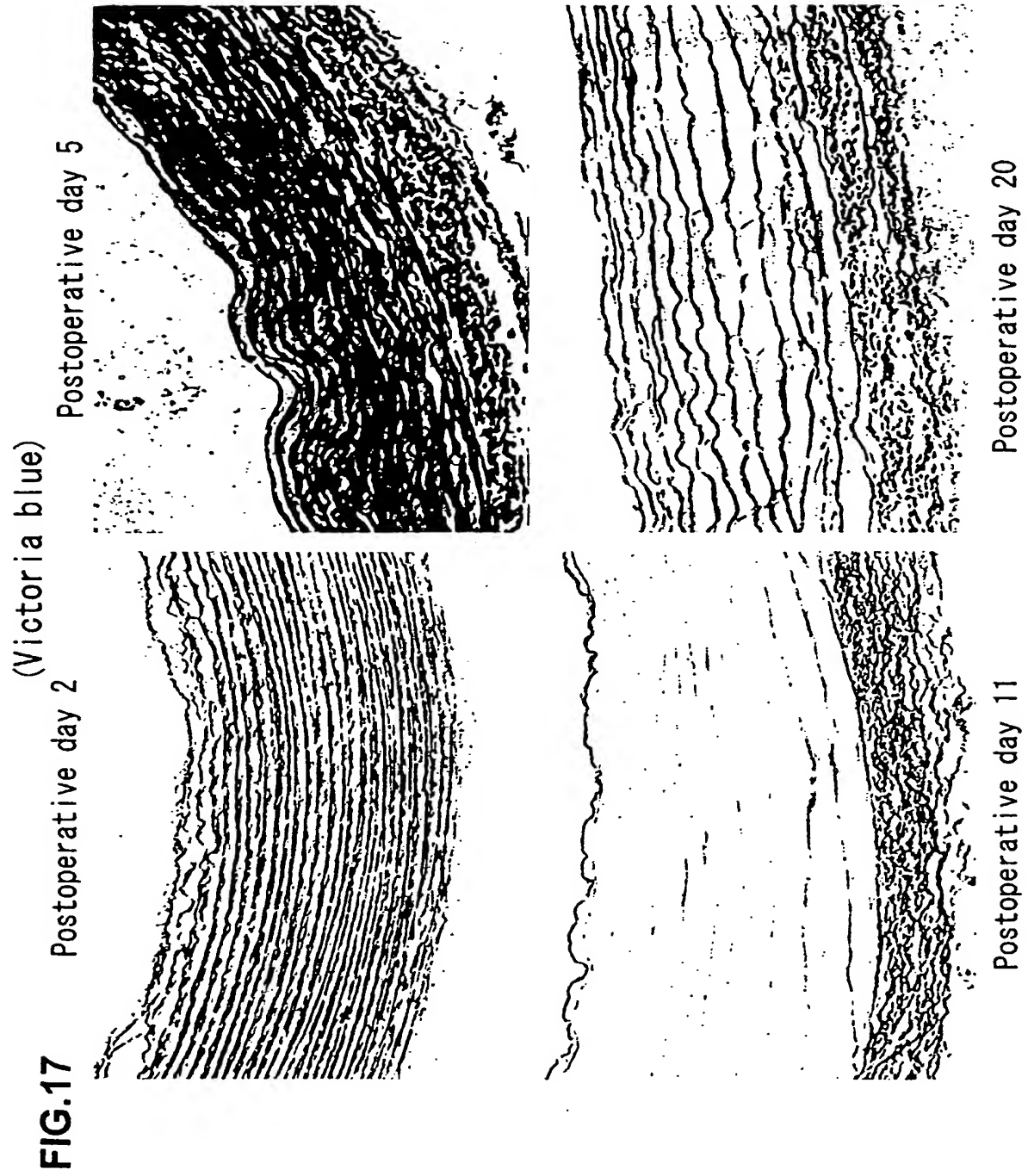
(Sirius red, Victoria blue)

Postoperative day 11

**FIG.16**



20/25



21/25

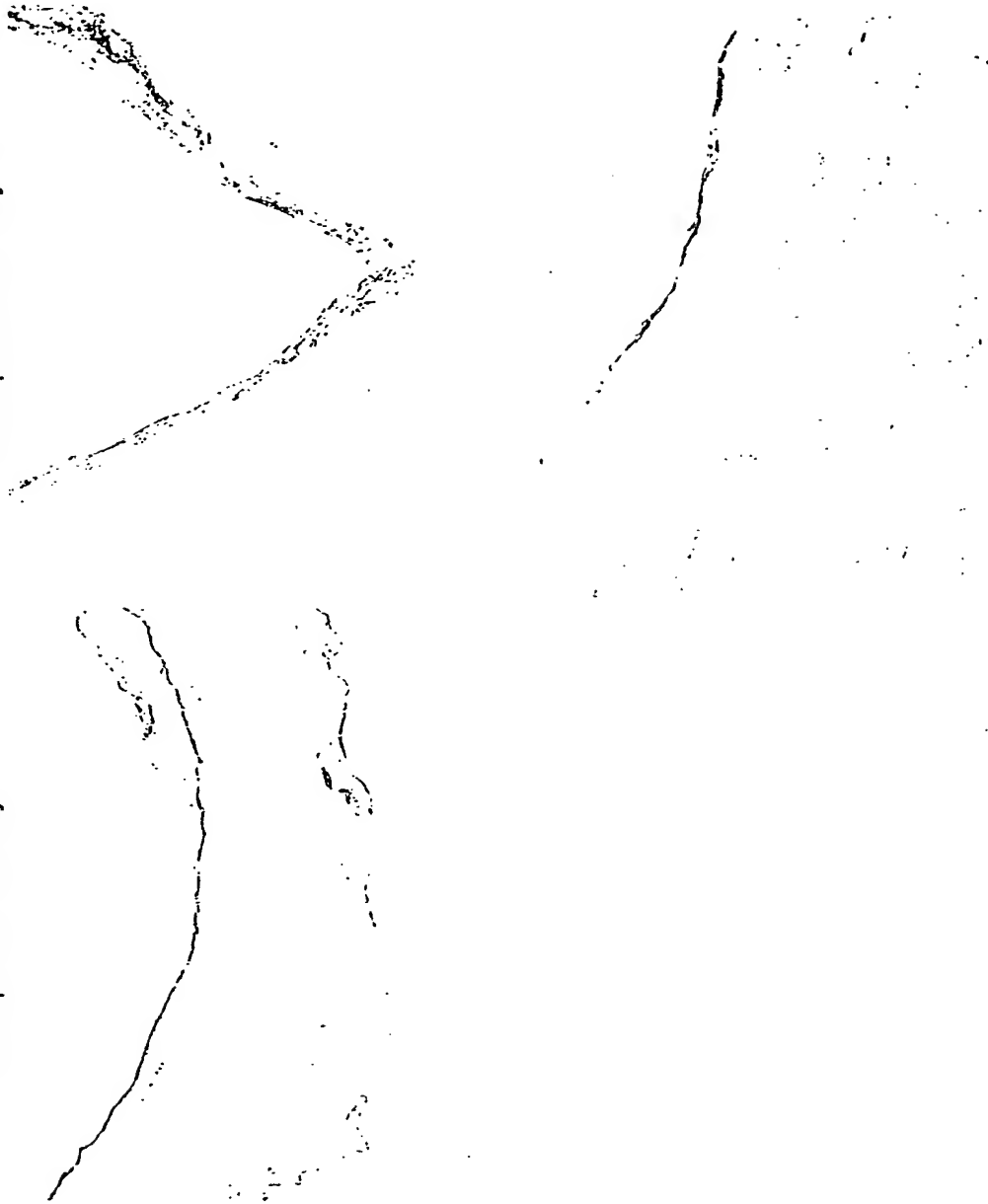
**FIG.18**

(Factor VIII)

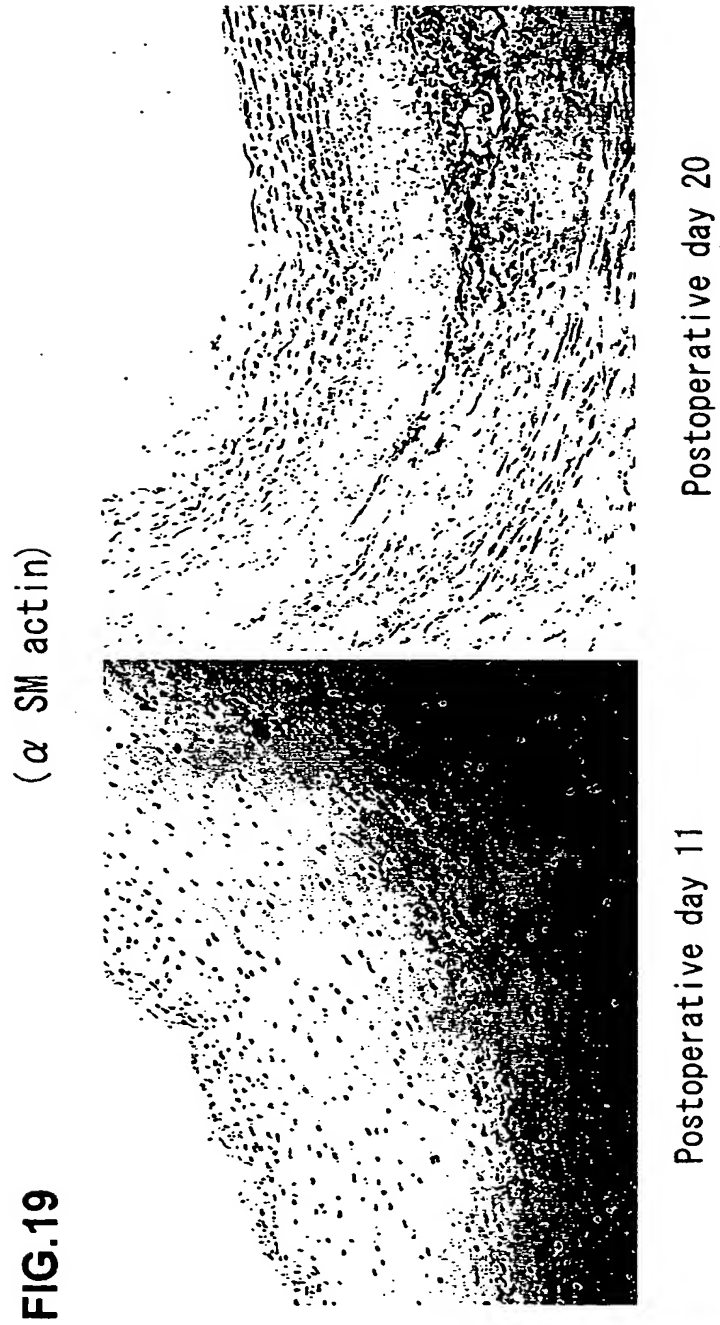
Postoperative day 2

Postoperative day 5

Postoperative day 20



22/25

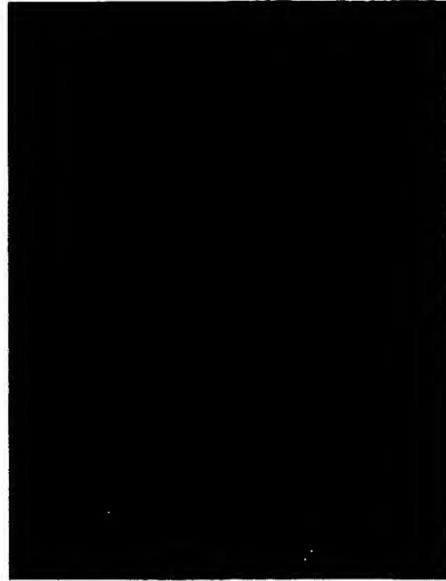


23/25

FIG. 20



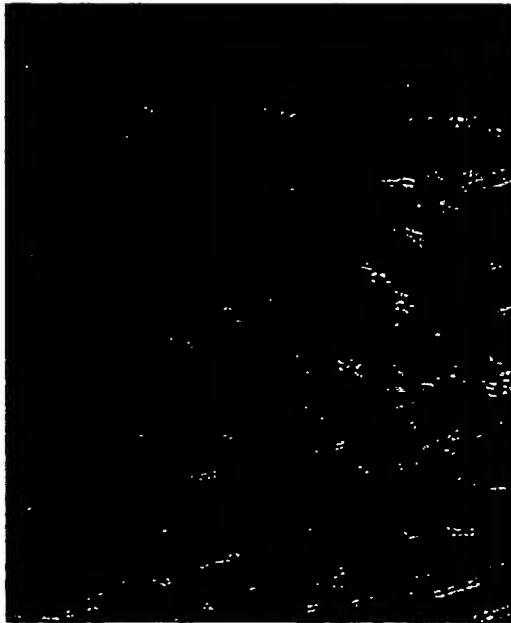
pericardium PEG



pericardium PEG

Pericardium decellularized by PEG treatment

24/25

**FIG.21**Pericardium decellularized  
by PEG treatmentPericardium decellularized  
by surfactant treatment





**FIG.22**

Implantation of pericardium decellularized  
by PEG treatment into cardiac infarct, and cardiac muscle tissue

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

☐ BLACK BORDERS

☒ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES

☐ FADED TEXT OR DRAWING

☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING

☐ SKEWED/SLANTED IMAGES

☒ COLOR OR BLACK AND WHITE PHOTOGRAPHS

☐ GRAY SCALE DOCUMENTS

☐ LINES OR MARKS ON ORIGINAL DOCUMENT

☒ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

☐ OTHER: \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.